

---+ Package TWiki::Render

This module provides most of the actual HTML rendering code in TWiki.

## ClassMethod new (\$session)

Creates a new renderer

## ObjectMethod finish ()

Break circular references.

## ObjectMethod renderParent

(\$web, \$topic, \$meta, \$params) -> \$text

Render parent meta-data

## ObjectMethod renderMoved

(\$web, \$topic, \$meta, \$params) -> \$text

Render moved meta-data

## ObjectMethod makeAnchorName

(\$anchorName, \$compatibilityMode) -> \$anchorName

- \$anchorName - the unprocessed anchor name
- \$compatibilityMode - SMELL: compatibility with **what??** Who knows. 😞

Build a valid HTML anchor name

## ObjectMethod makeUniqueAnchorName

(\$web, \$topic, \$anchorName, \$compatibility) ->  
\$anchorName

- \$anchorName - the unprocessed anchor name
- \$compatibilityMode - SMELL: compatibility with **what??** Who knows. 😞

Build a valid HTML anchor name (unique w.r.t. the list stored in %anchorNames)

## ObjectMethod internalLink

(\$theWeb, \$theTopic, \$theLinkText, \$theAnchor, \$doLink, ...)  
-> \$html

Generate a link.

Note: Topic names may be spaced out. Spaced out names are converted to WikWords, for example, "spaced topic name" points to "SpacedTopicName".

- `$theWeb` - the web containing the topic
- `$theTopic` - the topic to be link
- `$theLinkText` - text to use for the link
- `$theAnchor` - the link anchor, if any
- `$doLinkToMissingPages` - boolean: false means suppress link for non-existing pages
- `$doKeepWeb` - boolean: true to keep web prefix (for non existing Web.TOPIC)
- `$hasExplicitLinkLabel` - boolean: true in case of explicit link label

Called by `_handleWikiWord` and `_handleSquareBracketedLink` and by `Func::internalLink`

Calls `_renderWikiWord`, which in turn will use `Plurals.pm` to match fold plurals to equivalency with their singular form

SMELL: why is this available to `Func`?

## ObjectMethod `renderFORMFIELD`

`(%params, $topic, $web) -> $html`

Returns the fully rendered expansion of a tag.

## ObjectMethod `getRenderedVersion`

`($text, $theWeb, $theTopic) -> $html`

The main rendering function.

## StaticMethod `verbatimCallback`

Callback for use with `putBackBlocks` that replaces `<` and `>` by their HTML entities `&lt;` and `&gt;`;

## ObjectMethod `TML2PlainText`

`($text, $web, $topic, $opts) -> $plainText`

Clean up TWiki text for display as plain text without pushing it through the full rendering pipeline. Intended for generation of topic and change summaries. Adds `nop` tags to prevent TWiki subsequent rendering; `nops` get removed at the very end.

Defuses TML.

`$opts`:

- `showvar` - shows `%VAR%` names if not expanded
- `expandvar` - expands `%VARS%`
- `nohead` - strips `---+` headings at the top of the text
- `showmeta` - does not filter meta-data

## ObjectMethod `protectPlainText ($text) -> $tml`

Protect plain text from expansions that would normally be done during rendering, such as wikiwords. Topic summaries, for example, have to be protected this way.

ObjectMethod `internalLink($theWeb,$theTopic,$theLinkText,$theAnchor,$doLink,$doKeepWeb,$hasExplicit`

## ObjectMethod makeTopicSummary

**(*\$theText*, *\$theTopic*, *\$theWeb*, *\$theFlags*) -> *\$tml***

Makes a plain text summary of the given topic by simply trimming a bit off the top. Truncates to \$TMTRUNC chars or, if a number is specified in *\$theFlags*, to that length.

## ObjectMethod takeOutBlocks (*\\$text*, *\$tag*, *\%map*) -> *\$text*

- *\$text* - Text to process
- *\$tag* - XHTML-style tag.
- *\%map* - Reference to a hash to contain the removed blocks

Return value: *\$text* with blocks removed

Searches through *\$text* and extracts blocks delimited by a tag, appending each onto the end of the @buffer and replacing with a token string which is not affected by TWiki rendering. The text after these substitutions is returned.

Parameters to the open tag are recorded.

This is *different* to takeOutProtected, because it requires tags to be on their own line. it also supports a callback for post- processing the data before re-insertion.

## ObjectMethod putBackBlocks

**(*\\$text*, *\%map*, *\$tag*, *\$newtag*, *\$callback*) -> *\$text***

Return value: *\$text* with blocks added back

- *\\$text* - reference to text to process
- *\%map* - map placeholders to blocks removed by takeOutBlocks
- *\$tag* - Tag name processed by takeOutBlocks
- *\$newtag* - Tag name to use in output, in place of *\$tag*. If undefined, uses *\$tag*.
- *\$callback* - Reference to function to call on each block being inserted (optional)

Reverses the actions of takeOutBlocks.

Each replaced block is processed by the callback (if there is one) before re-insertion.

Parameters to the outermost cut block are replaced into the open tag, even if that tag is changed. This allows things like <verbatim class=""> to be mapped to <pre class="">

Cool, eh what? Jolly good show.

And if you set *\$newtag* to "", we replace the taken out block with the valuse itself

- which i'm using to stop the rendering process, but then at the end put in the html directly (for tag.  
---++ ObjectMethod \*renderRevisionInfo\* (*\$web*, *\$topic*, *\$meta*, *\$rev*, *\$format*) -> *\$string*  
Obtain and render revision info for a topic. \* *=\$web=* - the web of the topic \* *=\$topic=* - the topic \* *=\$meta=* if specified, get rev info from here. If not specified, or meta contains rev info for a different version than the one requested, will reload the topic \* *=\$rev=* - the rev number, defaults to

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latest rev \* =\$format= - the render format, defaults to =\$rev - \$time - \$wikiusername= =\$format= can contain the following keys for expansion: | =\$web= | the web name || =\$topic= | the topic name || =\$rev= | the rev number || =\$comment= | the comment || =\$username= | the login of the saving user | | =\$wikiname= | the wikiname of the saving user || =\$wikiusername= | the web.wikiname of the saving user || =\$date= | the date of the rev (no time) || =\$time= | the time of the rev || =\$min=, =\$sec=, etc. | Same date format qualifiers as GMTIME | ---++ ObjectMethod \*summariseChanges\* (\$user, \$web, \$topic, \$orev, \$nrev, \$tml) -> \$text \* =\$user= - user (null to ignore permissions) \* =\$web= - web \* =\$topic= - topic \* =\$orev= - older rev \* =\$nrev= - later rev \* =\$tml= - if true will generate renderable TML (i.e. HTML with NOPs. if false will generate a summary suitable for use in plain text (mail, for example) Generate a (max 3 line) summary of the differences between the revs. If there is only one rev, a topic summary will be returned. If =\$tml= is not set, all HTML will be removed. In non-tml, lines are truncated to 70 characters. Differences are shown using + and - to indicate added and removed text. ---++ ObjectMethod \*forEachLine\* (\$text, \&fn, \%options) -> \$newText Iterate over each line, calling =\&fn= on each. \%options may contain: \* =pre= => true, will call fn for each line in pre blocks \* =verbatim= => true, will call fn for each line in verbatim blocks \* =literal= => true, will call fn for each line in literal blocks \* =noautolink= => true, will call fn for each line in =noautolink= blocks The spec of \&fn is =sub fn( \$line, \%options ) -> \$newLine=. The \%options hash passed into this function is passed down to the sub, and the keys =in\_literal=, =in\_pre=, =in\_verbatim= and =in\_noautolink= are set boolean TRUE if the line is from one (or more) of those block types. The return result replaces \$line in \$newText. ---++ StaticMethod \*getReferenceRE\* (\$web, \$topic, \%options) -> \$re \* \$web, \$topic - specify the topic being referred to, or web if \$topic is undef. \* \%options - the following options are available \* =interweb= - if true, then fully web-qualified references are required. \* =grep= - if true, generate a GNU-grep compatible RE instead of the default Perl RE. \* =url= - if set, generates an expression that will match a TWiki URL that points to the web/topic, instead of the default which matches topic links in plain text. Generate a regular expression that can be used to match references to the specified web/topic. Note that the resultant RE will only match fully qualified (i.e. with web specifier) topic names and topic names that are wikiwords in text. Works for spaced-out wikiwords for topic names. The RE returned is designed to be used with =s///= ---++ StaticMethod \*replaceTopicReferences\* (\$text, \%options) -> \$text Callback designed for use with forEachLine, to replace topic references. \%options contains: \* =oldWeb= => Web of reference to replace \* =oldTopic= => Topic of reference to replace \* =newWeb= => Web of new reference \* =newTopic= => Topic of new reference \* =inWeb= => the web which the text we are presently processing resides in \* =fullPaths= => optional, if set forces all links to full web.topic form For a usage example see TWiki::UI::Manage.pm ---++ StaticMethod \*replaceWebReferences\* (\$text, \%options) -> \$text Callback designed for use with forEachLine, to replace web references. \%options contains: \* =oldWeb= => Web of reference to replace \* =newWeb= => Web of new reference For a usage example see TWiki::UI::Manage.pm ---++ ObjectMethod \*replaceWebInternalReferences\* (\\$text, \%meta, \$oldWeb, \$oldTopic) Change within-web wikiwords in \$\$text and \$meta to full web.topic syntax. \%options must include topics => list of topics that must have references to them changed to include the web specifier. ---++ StaticMethod \*breakName\* (\$text, \$args) -> \$text \* =\$text= - text to "break" \* =\$args= - string of format (\d+)([s\*]\.\.\.)? Hyphenates \$text every \$1 characters, or if \$2 is "..." then shortens to \$1 characters and appends "..." (making the final string \$1+3 characters long) \_Moved from Search.pm because it was obviously unhappy there, as it is a rendering function\_ ---++ StaticMethod \*protectFormFieldValue\* (\$value, \$attrs) -> \$html Given the value of a form field, and a set of attributes that control how to display that value, protect the value from further processing. The protected value is determined from the value of the field after: \* newlines are replaced with <br> or the value of \$attrs->{newline} \* processing through breakName if \$attrs->{break} is defined \* escaping of \$vars if \$attrs->{protectdollar} is defined \* | is replaced with &#124; or the value of \$attrs->{bar} if defined

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